

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for transmitting data units by way of a transmission medium that comprises at least three adjacent transmission ~~lines~~ lines, the method ~~having the following steps comprising:~~
 - (a) ~~supplying a plurality of codes~~ codes from a memory in which the plurality of codes is stored, each code comprising a number of code sections that corresponds to the number of transmission lines of the transmission medium, each code section of a code on an associated transmission line having a predetermined signal value, and the sum of the signal values being substantially constant for each transmitted ~~code~~ code;
 - (b) ~~for each data unit to be transmitted, selection of a code from the plurality of codes; and~~
 - (c) ~~supplying the selected code for a transmission by way of the transmission medium~~ medium.
2. (currently amended) ~~A method~~ The method as claimed in claim 1, in which the data units and the codes to be transmitted are supplied in accordance with a predetermined clock ~~pulse~~ pulse, wherein ~~in step (b)~~ at each new clock pulse a new code is selected, based on the preceding code and the new data ~~unit~~ unit.
3. (currently amended) ~~A method~~ The method as claimed in claim 1, in which the code is a binary code, each of the codes comprising the same number of code sections with a high logic level and code sections with a low logic level.
4. (currently amended) ~~A method~~ The method as claimed in claim 3, in which a data unit comprises one bit or a plurality of bits.

5. (currently amended) ~~A method~~ The method as claimed in claim 1, in which the sum of the signal values is substantially zero.

6. (currently amended) A device for transmitting data units by way of a transmission medium that comprises at least three adjacent transmission ~~lines having~~ lines, the device comprising:

an input for receiving the data units;

a memory, in which a plurality of codes is stored, each code comprising a number of code sections that corresponds to the number of transmission lines of the transmission medium, each code section ~~of a~~ of a code on an associated transmission line having a predetermined signal value, and the sum of the signal values being substantially constant for each transmitted ~~code~~ code;

a selection device, which is actively connected with the input and the memory in order to select and supply from the memory a code for a data unit received at the input; and

an output that is actively connected with the selection device in order to supply the code supplied by the same for a transmission by way of the transmission ~~medium~~ medium.

7. (currently amended) ~~A device~~ The device as claimed in claim 6, with a clock input for receiving a clock pulse, a data unit appearing at the input at each new clock pulse, and the selection device selecting and supplying, on the basis of the preceding code and a new data unit, a new code for the new clock pulse.

8. (currently amended) A method for receiving data units by way of a transmission medium that comprises at least three adjacent transmission lines the data units having been sent in accordance with a method as claimed in claim 1, the method comprising the following steps:

- ~~(a)~~ receiving the transmitted codes transmitted on the transmission ~~medium~~ medium;
- ~~(b)~~ assigning the received codes to the appropriate data units; and
- ~~(c)~~ outputting the data units.

9. (currently amended) ~~A method~~ The method as claimed in claim 8, ~~comprising the following step~~ further comprising:

recovery of a clock signal based on transitions of the codes transmitted by way ~~of the~~ of the transmission medium.

10. (previously presented) A device for receiving data units from a transmission medium that comprises at least three adjacent transmission lines the data units being sent by a device as claimed in claim 6, having

- an input for receiving the codes from the transmission ~~medium~~ medium;
- an arrangement for assigning the received codes to the corresponding data units;
- and
- an output for outputting the data units.

11. (currently amended) ~~A device~~ The device as claimed in claim 10, having a timing recovery circuit for recovering a clock signal based on transitions of the codes transmitted by way of the transmission ~~medium~~ medium.

12. (canceled)

13. (currently amended) A device for transmitting data units, ~~having the device~~
comprising:

a device for transmitting data units as claimed in claim 10;

a transmission medium that is actively connected with the device for transmitting

and has at least three adjacent transmission ~~lines~~ lines; and

a device actively connected with the transmission medium for receiving data
units.